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Model #: SMART2200RM2UN

SmartPro 2.2kVA 1.92kW Line Interactive Sine Wave UPS, Pre-installed SNMPWEBCARD, 2U, LCD, USB, Serial, EPO, 120V

Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS; 0.87 power factor
- 120V nominal output during brownouts to 83V and overvoltages to 145V
- Interactive LCD provides UPS status information and advanced configuration options
- Hot-swap batteries, 96% efficiency, Sine wave output
- USB, RS232 & EPO ports, Pre-installed SNMPWEBCARD interface
- 2 independently switchable output load banks
- NEMA 5-20P input; 4 NEMA 5-15R & 4 5-15/20R outlets

Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 96% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and Pre-installed SNMPWEBCARD network interface. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. Includes PowerAlert monitoring software and complete cabling. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

Applications

Ideal for server, networking and telecommunications equipment

Package Includes

- SMART2200RM2UN UPS system with Pre-installed SNMPWEBCARD
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Instruction manual

Features

- Tripp Lite SMART2200RM2UN line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V
- NEMA 5-20P input plug; 4 NEMA 5-15R & 4 NEMA 5-15/20R output receptacles, Two independently switchable output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 96% efficiency rating in line-power mode offers reduced power consumption and BTU emisssions
- Internal batteries offer 12 minutes at 50% load (960W) and 4.5 minutes at 100% load (1920W)
- Hot-swappable, user-replaceable internal batteries can be replaced with no disruption to connected equipment
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional

2-9USTAND enables tower placement

- Built-in USB, RS-232 and Pre-installed SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software; Built-in Emergency Power Off (EPO) interface with cable

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1920
Output kW capacity	1.92
Output power factor	0.87
Nominal Output Voltage(s) Supported	120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-14%, +6%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	4 5-15R outlet(s); 4 5-15/20R outlet(s)
Built-in controllable switched load banks	Two switchable single-outlet load banks
Output AC waveform (AC mode)	Pure Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	16A (120V)
Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-20P
Input circuit breaker	20A
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	20A 120V
BATTERY	

Full load runtime (minutes)	4.5 min. (1920w)
Half load runtime (minutes)	12 min. (960w)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC94-2U
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145
Overvoltage correction	Input voltages between 127 and 145 are reduced by 12%
Undervoltage correction	Input voltages between 108 and 96 are boosted by 12%
Severe undervoltage correction	Input voltages between 83 and 95 are boosted by 24%
LEDS ALARMS & SWITCHES	
Front panel LCD display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring options)
Alarms	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
Alarm cancel operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	570
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount

UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 49.4
Installed whole system total rack space height (rack spaces)	2U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	57.6
UPS / Power Module weight (kg)	26.1
UPS Shipping dimensions (height x width x depth / inches)	7.9 x 21.7 x 24.2
UPS Shipping dimensions (height x width x depth / cm)	20.1 x 55.1 x 61.5
Shipping weight (lbs)	57.6
Shipping weight (kg)	26.2
UPS housing material	Steel
Cooling method	Fan
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC mode BTU / hr. (full load)	306
COMMUNICATIONS	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Pre-installed SNMPWEBCARD interface; Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB, DB9 and EPO cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	

Transfer time	5 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode)
Low voltage transfer to battery power (setpoint)	83
High voltage transfer to battery power (setpoint)	145
SPECIAL FEATURES	
Grounding lug	Back panel grounding lug
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries
Green & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: registration is required for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance

Related Items

Optional Products

Related Model	Description	Qty.
WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	1
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires UPS with SNMPWEBCARD, monitored PDU or switched PDU.)	1
SRSWITCH	Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE	1
2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	1
2POSTRMKITWM	Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems	1
WATCHDOGSW	WatchDog Service Monitoring / Reboot Software	1
PDU1220	Single-Phase Basic PDU, 20A 120V, 1U Horizontal Rackmount, 13 NEMA 5-15/20R outlets, NEMA 5-20P input plug	1
PDUV20	Single-Phase Basic PDU, 20A 120V, 0U Vertical Rackmount, 14 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMH20	Single-Phase Metered PDU, 20A 120V, 1U Horizontal Rackmount, 12 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUNV	Single-Phase Basic PDU, 16A 100-240V, 1U Rackmount, C13 C19 outlets, C20 input and C14, L6-20P, L5-20P, 5-20P and 5-15P adapters	1
PDUMV20	Single-Phase Metered PDU, 20A 120V, 0U Vertical Rackmount, 28 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1

PDUMNV20	Single-Phase Monitored PDU, 20A 120V, 70 in. 0U Vertical Rackmount, 24 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMNH20	Single-Phase Monitored PDU, 20A 120V, 1U Horizontal Rackmount, 8 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMV20NET	Single-Phase Switched PDU, 20A 120V, 0U Vertical Rackmount, 24 NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMH20AT	Single-Phase Auto Transfer Switch / Metered PDU, 20A 120V, 1U Horizontal Rackmount, 16 5-15/20R outlets, 2 L5-20P / 5-20P adapters	1
PDUMH20ATNET	Single-Phase Auto Transfer Switch / Switched PDU 20A 120V, 1U Horizontal Rackmount, 16 5-15/20R outlets, 2 L5-20P / 5-20P inputs	1
PDUB20	Single-Phase Hot-Swap PDU, 20A 120V, 2U Horizontal Rackmount, 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets, 2 NEMA 5-20P input plugs	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?variables.txtModelID=5428.

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